

10/542408

1/13 JC20 Rec'd PCT/PTO 15 JUL 2005

SEQUENCE LISTING

<110> Takeda Pharmaceutical Company Limited

<120> Novel Screening Method

<130> G05-0036

<150> JP 2003-010001

<151> 2003-01-17

<150> JP 2003-104540

<151> 2003-04-08

<150> JP 2003-194497

<151> 2003-07-09

<150> JP 2003-329080

<151> 2003-09-19

<150> PCT/JP2004/000248

<151> 2004-01-15

<160> 22

<210> 1

<211> 361

<212> PRT

<213> Homo sapiens

<400> 1

Met Ser Pro Glu Cys Ala Arg Ala Ala Gly Asp Ala Pro Leu Arg Ser

5

10

15

Leu Glu Gln Ala Asn Arg Thr Arg Phe Pro Phe Phe Ser Asp Val Lys

20

25

30

Gly Asp His Arg Leu Val Leu Ala Ala Val Glu Thr Thr Val Leu Val

35	40	45
Leu Ile Phe Ala Val Ser Leu Leu Gly Asn Val Cys Ala	Leu Val Leu	
50	55	60
Val Ala Arg Arg Arg Arg Gly Ala Thr Ala Cys Leu Val	Leu Asn	
65	70	75
Leu Phe Cys Ala Asp Leu Leu Phe Ile Ser Ala Ile Pro	Leu Val Leu	
85	90	95
Ala Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val	Ala Cys His	
100	105	110
Leu Leu Phe Tyr Val Met Thr Leu Ser Gly Ser Val Thr	Ile Leu Thr	
115	120	125
Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val	His Leu Gln	
130	135	140
Arg Gly Val Arg Gly Pro Gly Arg Arg Ala Arg Ala Val	Leu Leu Ala	
145	150	155
Leu Ile Trp Gly Tyr Ser Ala Val Ala Ala Leu Pro Leu	Cys Val Phe	
165	170	175
Phe Arg Val Val Pro Gln Arg Leu Pro Gly Ala Asp Gln	Glu Ile Ser	
180	185	190
Ile Cys Thr Leu Ile Trp Pro Thr Ile Pro Gly Glu Ile	Ser Trp Asp	
195	200	205
Val Ser Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu	Val Ile Val	
210	215	220
Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser	Arg Lys Arg	
225	230	235
Leu Thr Val Ser Leu Ala Tyr Ser Glu Ser His Gln Ile	Arg Val Ser	
245	250	255
Gln Gln Asp Phe Arg Leu Phe Arg Thr Leu Phe Leu Leu	Met Val Ser	
260	265	270
Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu	Ile Leu	
275	280	285
Ile Gln Asn Phe Lys Gln Asp Leu Val Ile Trp Pro Ser	Leu Phe Phe	
290	295	300
Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn	Pro Ile Leu	
305	310	315
Tyr Asn Met Thr Leu Cys Arg Asn Glu Trp Lys Lys Ile	Phe Cys Cys	

325	330	335
Phe Trp Phe Pro Glu Lys Gly Ala Ile Leu Thr Asp Thr Ser Val Lys		
340	345	350
Arg Asn Asp Leu Ser Ile Ile Ser Gly		
355	360	

<210> 2
<211> 1083
<212> DNA
<213> Homo sapiens

<400> 2

atgtccctg aatgcgcg	ggcagcggc	gacgcgcct	tgcgcagcct	ggagcaagcc	60
aaccgcaccc	gctttccctt	cttctccgac	gtcaaggcg	accaccggct	120
gcgggtggaga	caaccgtgct	ggtgctcatc	tttgcaagtgt	cgctgctggg	180
gccctggtgtc	tggtgtggcg	ccgacgacgc	cgcggcgca	ctgcctgcct	240
ctcttctgcg	cggacactgct	cttcatcagc	gctatccctc	tgggtgctggc	300
actgaggcct	ggctgctggg	ccccgttgcc	tgccacactgc	tcttctacgt	360
agcggcagcg	tcaccatcct	cacgctggcc	gcggtcagcc	tggagcgcatt	420
gtgcacactgc	agcgcggcgt	gcggggcct	ggcggcg	cgcggcagt	480
ctcatctggg	gctattcggc	ggtcgccgct	ctgcctctct	cggtcttctt	540
ccgcaacggc	tccccggcgc	cgaccaggaa	atttcgattt	gcacactgtat	600
attcctggag	agatctcg	ggtatgtct	tttggttactt	tgaacttctt	660
ctggtcattt	tgtatcgtta	ctccaaaattt	ttacagatca	caaaggcatc	720
ctcacggtaa	gcctggccta	ctcggagagc	caccagatcc	gcgtgtccca	780
cggctcttcc	gcaccctctt	cctcctcatg	gtctccttct	tcatcatgtg	840
atcatcacca	tcctcctcat	cctgatccag	aacttcaagc	aagacacttgtt	900
tccctcttct	tctgggtgg	ggccttcaca	tttgcataatt	cagccctaaa	960
tacaacatga	cactgtgcag	aatgagtg	aagaaaattt	tttgctgttt	1020
aaaaagggag	ccatTTAAC	agacacatct	gtcaaaagaa	atgacttg	1080
ggc					1083

<210> 3
<211> 361
<212> PRT
<213> Mus musculus

<400> 3

Met Ser Pro Glu Cys Ala Gln Thr Thr Gly Pro Gly Pro Ser His Thr		
5	10	15
Leu Asp Gln Val Asn Arg Thr His Phe Pro Phe Phe Ser Asp Val Lys		
20	25	30
Gly Asp His Arg Leu Val Leu Ser Val Val Glu Thr Thr Val Leu Gly		
35	40	45
Leu Ile Phe Val Val Ser Leu Leu Gly Asn Val Cys Ala Leu Val Leu		
50	55	60
Val Ala Arg Arg Arg Arg Gly Ala Thr Ala Ser Leu Val Leu Asn		
65	70	75
80		
Leu Phe Cys Ala Asp Leu Leu Phe Thr Ser Ala Ile Pro Leu Val Leu		
85	90	95
Val Val Arg Trp Thr Glu Ala Trp Leu Leu Gly Pro Val Val Cys His		
100	105	110
Leu Leu Phe Tyr Val Met Thr Met Ser Gly Ser Val Thr Ile Leu Thr		
115	120	125
Leu Ala Ala Val Ser Leu Glu Arg Met Val Cys Ile Val Arg Leu Arg		
130	135	140
Arg Gly Leu Ser Gly Pro Gly Arg Arg Thr Gln Ala Ala Leu Leu Ala		
145	150	155
160		
Phe Ile Trp Gly Tyr Ser Ala Leu Ala Ala Leu Pro Leu Cys Ile Leu		
165	170	175
Phe Arg Val Val Pro Gln Arg Leu Pro Gly Gly Asp Gln Glu Ile Pro		
180	185	190
Ile Cys Thr Leu Asp Trp Pro Asn Arg Ile Gly Glu Ile Ser Trp Asp		
195	200	205
Val Phe Phe Val Thr Leu Asn Phe Leu Val Pro Gly Leu Val Ile Val		
210	215	220
Ile Ser Tyr Ser Lys Ile Leu Gln Ile Thr Lys Ala Ser Arg Lys Arg		
225	230	235
240		
Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser		
245	250	255
Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser		
260	265	270

Phe	Phe	Ile	Met	Trp	Ser	Pro	Ile	Ile	Ile	Thr	Ile	Leu	Leu	Ile	Leu
							275		280					285	
Ile	Gln	Asn	Phe	Arg	Gln	Asp	Leu	Val	Ile	Trp	Pro	Ser	Leu	Phe	Phe
							290		295				300		
Trp	Val	Val	Ala	Phe	Thr	Phe	Ala	Asn	Ser	Ala	Leu	Asn	Pro	Ile	Leu
							305		310			315		320	
Tyr	Asn	Met	Ser	Leu	Phe	Arg	Asn	Glu	Trp	Arg	Lys	Ile	Phe	Cys	Cys
							325		330			335			
Phe	Phe	Pro	Glu	Lys	Gly	Ala	Ile	Phe	Thr	Asp	Thr	Ser	Val	Arg	
							340		345			350			
Arg	Asn	Asp	Leu	Ser	Val	Ile	Ser	Ser							
							355		360						

<210> 4

<211> 1083

<212> DNA

<213> Mus musculus

<400> 4

atgtccctg	agtgtgcaca	gacgacgggc	cctggccctt	cgcacaccct	ggaccaagtc	60
aatcgacccc	acttcccttt	cttctcgat	gtcaagggcg	accaccggtt	ggtgttgagc	120
gtcgtggaga	ccaccgttct	ggggctcatc	tttgcgtct	cactgctggg	caacgtgtgt	180
gctctatgtc	tggggcgcg	ccgtccggcg	cgtggggcga	cagccagcct	ggtgctcaac	240
ctcttctgcg	cggatttgct	cttcaccagc	gccatccctc	tagtgcgt	cgtgcgctgg	300
actgaggcct	ggctgttggg	gcccgtcg	tgccacactgc	tcttctacgt	gatgacaatg	360
agcggcagcg	tcacgatcct	cacactggcc	gcggtcagcc	tggagcgcac	ggtgtgcac	420
gtgcgcctcc	ggcgccgctt	gagcggcccg	ggcgccgga	ctcaggccgc	actgctggct	480
ttcatatggg	tttactcgcc	gctcgccgc	ctgccccctct	gcatcttgc	ccgcgtggc	540
ccgcagcgcc	ttcccgccgg	ggaccaggaa	attccgattt	gcacattgga	ttggcccaac	600
cgcataaggag	aaatctcatg	ggatgtgttt	tttgcgtactt	tgaacttccct	ggtgccggga	660
ctggtcattt	tgtatcgat	ctccaaaattt	ttacagatca	cgaaagcata	gcggaaagagg	720
cttacgctga	gcttggcata	ctctgagagc	caccagatcc	gagtgtccca	acaagactac	780
cgactcttcc	gcacgctctt	cctgctcatg	gtttcccttct	tcatcatgt	gagtcccatc	840
atcatcacca	tcctcctcat	cttgatccaa	aacttccggc	aggacctggt	catctggcca	900
tccctttct	tctgggtgg	ggccttcacg	tttgcctaact	ctgcctaaa	ccccatactg	960
tacaacatgt	cgctgttcag	gaacgaatgg	aggaagattt	tttgcgtctt	ctttttcca	1020

gagaaggag ccattttac agacacgtct gtcaggcgaa atgacttgtc ttttatttcc 1080
agc 1083

<210> 5
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 5
gctgtggcat gcttttaaac 20

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 6
cgctgtggat gtctatttgc 20

<210> 7
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 7
agttcatttc cagtagccctc catcagtggc 30

<210> 8

<211> 361

<212> PRT

<213> Rattus norvegicus

<400> 8

Met	Ser	Pro	Glu	Cys	Ala	Gln	Thr	Thr	Gly	Pro	Gly	Pro	Ser	Arg	Thr
							5			10					15
Pro	Asp	Gln	Val	Asn	Arg	Thr	His	Phe	Pro	Phe	Phe	Ser	Asp	Val	Lys
							20			25					30
Gly	Asp	His	Arg	Leu	Val	Leu	Ser	Val	Leu	Glu	Thr	Thr	Val	Leu	Gly
							35			40					45
Leu	Ile	Phe	Val	Val	Ser	Leu	Leu	Gly	Asn	Val	Cys	Ala	Leu	Val	Leu
							50			55					60
Val	Val	Arg	Arg	Arg	Arg	Gly	Ala	Thr	Val	Ser	Leu	Val	Leu	Asn	
							65			70					80
Leu	Phe	Cys	Ala	Asp	Leu	Leu	Phe	Thr	Ser	Ala	Ile	Pro	Leu	Val	Leu
							85			90					95
Val	Val	Arg	Trp	Thr	Glu	Ala	Trp	Leu	Leu	Gly	Pro	Val	Val	Cys	His
							100			105					110
Leu	Leu	Phe	Tyr	Val	Met	Thr	Met	Ser	Gly	Ser	Val	Thr	Ile	Leu	Thr
							115			120					125
Leu	Ala	Ala	Val	Ser	Leu	Glu	Arg	Met	Val	Cys	Ile	Val	Arg	Leu	Arg
							130			135					140
Arg	Gly	Leu	Ser	Gly	Pro	Gly	Arg	Arg	Thr	Gln	Ala	Ala	Leu	Leu	Ala
							145			150					160
Phe	Ile	Trp	Gly	Tyr	Ser	Ala	Leu	Ala	Leu	Pro	Leu	Cys	Ile	Leu	
							165			170					175
Phe	Arg	Val	Val	Pro	Gln	Arg	Leu	Pro	Gly	Gly	Asp	Gln	Glu	Ile	Pro
							180			185					190
Ile	Cys	Thr	Leu	Asp	Trp	Pro	Asn	Arg	Ile	Gly	Glu	Ile	Ser	Trp	Asp
							195			200					205
Val	Phe	Phe	Val	Thr	Leu	Asn	Phe	Leu	Val	Pro	Gly	Leu	Val	Ile	Val
							210			215					220
Ile	Ser	Tyr	Ser	Lys	Ile	Leu	Gln	Ile	Thr	Lys	Ala	Ser	Arg	Lys	Arg
							225			230					240

Leu Thr Leu Ser Leu Ala Tyr Ser Glu Ser His Gln Ile Arg Val Ser
 245 250 255
 Gln Gln Asp Tyr Arg Leu Phe Arg Thr Leu Phe Leu Leu Met Val Ser
 260 265 270
 Phe Phe Ile Met Trp Ser Pro Ile Ile Ile Thr Ile Leu Leu Ile Leu
 275 280 285
 Ile Gln Asn Phe Arg Gln Asp Leu Val Ile Trp Pro Ser Leu Phe Phe
 290 295 300
 Trp Val Val Ala Phe Thr Phe Ala Asn Ser Ala Leu Asn Pro Ile Leu
 305 310 315 320
 Tyr Asn Met Ser Leu Phe Arg Ser Glu Trp Arg Lys Ile Phe Cys Cys
 325 330 335
 Phe Phe Phe Pro Glu Lys Gly Ala Ile Phe Thr Glu Thr Ser Ile Arg
 340 345 350
 Arg Asn Asp Leu Ser Val Ile Ser Thr
 355 360

<210> 9
 <211> 1083
 <212> DNA
 <213> Rattus norvegicus

<400> 9

atgtcccttg	agtgtgcgca	gacgacgggc	cctggcccct	cgcgcacccc	ggaccaagtc	60
aatgcacccc	acttcccttt	cttctcgat	gtcaaggcgc	accaccggct	ggtgctgagc	120
gtcctggaga	ccaccgttct	gggactcatc	tttgtggct	cactgctggg	caacgtgtgt	180
gccctggtgc	tggtgtgcg	ccgtcgccgc	cgtggggcga	cagttagctt	ggtgctcaac	240
ctttctgcg	cggatttgct	cttaccaggc	gccatccctc	tagtgcgtgt	ggtgcgctgg	300
actgaaggct	ggctgctggg	gcccgtcgtc	tgcacactgc	tcttctacgt	gatgaccatg	360
agcggcagcg	tcacgatcct	cacgctggcc	gcggtcagcc	tggagcgcatt	ggtgtgcattc	420
gtgcgcctgc	ggcgcggctt	gagcggcccg	ggcggcggga	cgcaggcggc	gctgctggct	480
ttcatatggg	gttactcgcc	gctcgccgcg	ctggcccctt	gcatactgtt	ccgcgtggtc	540
ccgcagcgcc	ttcccgccgg	ggaccaggaa	attccgattt	gcacattgga	ttggcccaac	600
cgcataaggag	aaatctcatg	ggatgtgttt	tttgtgactt	tgaacttcct	ggtaccagga	660
ctggtcattg	tgatcagcta	ctccaagatt	ttacagatca	cgaaaggctc	gccaaggagg	720
cttacgctga	gcttggcata	ctccgagagc	caccagatcc	gagtgtccca	gcaggactac	780

cggtctttcc gaacgcttcc cctgctcatg gtttccttct tcatacatgtg gagtcccac 840
atcatcacca tcctcctcat cttgatccag aacttccggc aggacctgg tatactggccg 900
tccctttct tctgggttgtt ggccttcacg tttgccaact ccggccctaaa ccccatctg 960
tacaacatgt cgctgttcag gagcgagtgg aggaagattt ttgtctgctt ctttttcc 1020
gagaaggggag ccattttac agaaacgtct atcaggcgaa atgacttgtc tgttatttcc 1080
acc 1083

<210> 10
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 10
gtggtggcct tcacgttt 19

<210> 11
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 11
cgctcctgaa cagcgacat 19

<210> 12
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> probe

<400> 12
caactccgcc ctaaacccca ttctgt 26

<210> 13
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 13
gtcgacatgt cccctgagtg tgcgcagacg acg 33

<210> 14
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 14
gctagcttag gtggaaataa cagacaagtc att 33

<210> 15
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 15
tccgagtgac ccaacaagac tac 23

<210> 16
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 16
gactccacat gatgaagaag gaaa 24

<210> 17
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> probe

<400> 17
ccgcacgctc ttccctgctca tg 22

<210> 18
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 18
gtggtgtggcct tcacgtttg 19

<210> 19
<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 19

cgctcctgaa cagcgacat 19

<210> 20

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> probe

<400> 20

caactccgcc ctaaacccca ttctgt 26

<210> 21

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<221> misc_RNA

<222> (20)..(21)

<223> n stands for deoxy thymidine

<400> 21

ggaccaggaa auuccgauun n 21

<210> 22

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<221> misc_RNA

<222> (1)..(2)

<223> n stands for deoxy thymidine

<400> 22

nnccuggucc uuuuaaggcua a

21